	Application No.	Applicant(s)
Notice of Allowability	09/941,364	SAHLMAN, KARL-GOSTA EMANUEL
	Examiner	Art Unit
	Phuong Phu	2631
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commur GHTS. This application is su	this application. If not included nication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the application filed o</u>	<u>n 8/28/01</u> .	
2. ⊠ The allowed claim(s) is/are <u>1-22</u> .		
3. X The drawings filed on 28 August 2001 are accepted by the	Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	been received.	
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority doc	cuments have been received	in this national stage application from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.	
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or i	n the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attack mount(a)		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Info	ormal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sui	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 6/19/02 		lail Date mendment/Comment
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's S	tatement of Reasons for Allowance
of Biological Material	9. Other	
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REASONS FOR ALLOWANCE

- 1. Claims 1-22 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

References (6363120), (6266517), (5949283), (6711217), (6271724), (6583739), (6437644), (6275106), (6359508), (6078216), (5877653), (6011434) and (5760646) are cited because they are pertinent to the claimed invention.

Regarding to independent claims 1 and 11, none of prior art of record teaches or suggests an apparatus comprising, in combinations with other limitations recited in the claims, a reference RF up-converter that converts a first one of driving signals to a desired RF reference signal; a predistortion RF up-converter that combines a second one of the driving signals with a predistortion signal and converts the combined pre-distorted signal to a RF predistortion signal; an amplifier that amplifies the RF predistortion signal; a comparator that compares a sample of the RF predistortion signal with the RF reference signal and outputs an error signal corresponding to the comparison; a wide-band feed forward loop that amplifies the error signal and combines, in anti-phase, the amplified error signal with the amplified RF predistortion signal to produce an output signal; a measurement RF down-converter that samples and measures the error signal to provide a corresponding digital sampled error signal to a controller; and an adaptive estimator processor operatively coupled to the controller to estimate the performance of the apparatus by comparing the measured error signal with a delayed copy of an input signal and provide estimate information to the controller to support adaptive updating of the controller.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The

examiner can normally be reached on M-F (6:30-2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu Primary Examiner Art Unit 2631

Phury Pha Phuong Phu 11/18/04

PHIOMS PHU PRIMARY EXAMINER